

Historical Floods: Monocacy River at Jug Bridge near Frederick, MD

Latitude: 39.403
Flood Stage: 15

Period of Record: 1889-Present
Last Flood: 12/16/2018

Longitude: -77.366
Number of Floods: 123

Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code	Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code
6/1/1889	30	56,000	Major	C1 C8	1/4/1944	19.01	25,300	Moderate	none
10/3/1929	16	18,500	Minor	C3 F1	9/19/1945	15.5	16,300	Minor	none
8/11/1933	16.08	20,300	Minor	none	11/29/1945	17.15	19,800	Moderate	none
8/24/1933	28.1	51,000	Major	none	6/3/1946	19.27	24,600	Moderate	none
9/17/1933	15.98	20,000	Minor	none	1/2/1948	15.43	16,100	Minor	none
9/17/1934	21.6	33,500	Major	none	12/31/1948	17.14	19,600	Moderate	none
9/30/1934	15.38	18,700	Minor	none	1/6/1949	15.66	16,700	Minor	none
12/2/1934	17.2	22,800	Moderate	none	7/13/1949	21.3	29,700	Major	none
3/12/1936	16.4	20,900	Minor	none	7/19/1949	16.07	17,500	Minor	none
4/27/1937	21.7	33,800	Major	none	3/23/1950	15.09	15,500	Minor	none
11/14/1937	16.75	21,800	Minor	none	12/5/1950	17.3	20,100	Moderate	none
4/21/1940	17.53	23,400	Moderate	none	3/11/1952	17.76	21,200	Moderate	none
9/1/1940	17.85	24,100	Moderate	none	4/27/1952	18.41	22,500	Moderate	none
9/26/1940	16.59	21,400	Minor	none	11/22/1952	17.73	21,000	Moderate	none
5/22/1942	17.4	18,100	Moderate	none	3/23/1955	16.17	17,700	Minor	none
8/14/1942	20.29	27,900	Major	none	8/13/1955	15.98	17,300	Minor	none
10/16/1942	16.97	19,700	Minor	none	12/21/1957	16.41	18,200	Minor	none
12/30/1942	16.57	18,800	Minor	none	12/27/1957	15.33	16,000	Minor	none
5/21/1943	18.74	24,600	Moderate	none	3/6/1965	17.15	19,700	Moderate	none
11/9/1943	18.05	22,900	Moderate	none	2/14/1966	15.63	16,600	Minor	none

Drainage Area: 817 square miles
Gage Datum: 231.21 ft MSL

Data represent all historical events.
Potomac Basin

County of Gage: Frederick
County of Forecast Point: Frederick

Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code	Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code
9/15/1966	18.34	22,400	Moderate	none	2/13/1985	19.38	26,700	Moderate	none
3/8/1967	18.42	22,600	Moderate	none	11/30/1987	18.28	22,900	Moderate	none
4/15/1970	15.27	15,800	Minor	none	5/19/1988	18.47	23,300	Moderate	none
7/10/1970	16.48	18,300	Minor	none	5/7/1989	17.04	20,000	Moderate	none
6/23/1972	35.9	81,600	Major	none	10/24/1990	15.18	16,000	Minor	none
12/27/1973	16.28	17,900	Minor	none	11/23/1992	15.21	16,100	Minor	none
3/31/1974	15.55	16,400	Minor	none	12/12/1992	16.99	19,900	Minor	none
3/20/1975	15.93	17,200	Minor	none	3/5/1993	18.41	23,200	Moderate	none
9/26/1975	30.8	61,200	Major	none	3/24/1993	17.68	21,500	Moderate	none
10/10/1976	25.38	43,500	Major	none	4/17/1993	15.32	16,300	Minor	none
4/5/1977	16.64	20,200	Minor	none	11/29/1993	20.13	27,500	Major	none
1/27/1978	20.33	29,100	Major	none	12/6/1993	20.64	28,800	Major	none
3/27/1978	15.72	18,300	Minor	none	1/21/1995	16.18	18,100	Minor	none
1/25/1979	20.25	28,900	Major	none	1/20/1996	23.67	37,400	Major	none
2/26/1979	19.4	26,800	Moderate	none	1/28/1996	16.32	18,400	Minor	none
9/6/1979	22.03	33,700	Major	none	6/20/1996	22.54	34,100	Major	none
10/2/1979	16.57	20,100	Minor	none	9/7/1996	17.74	21,600	Moderate	none
3/22/1980	17.34	21,800	Moderate	none	10/19/1996	16.7	19,300	Minor	none
4/11/1983	19.34	26,600	Moderate	none	12/14/1996	18.15	22,600	Moderate	none
4/16/1983	17.15	21,400	Moderate	none	1/9/1998	17.79	21,700	Moderate	none
12/14/1983	18.24	23,900	Moderate	none	2/18/1998	15.17	16,000	Minor	none
2/15/1984	20.01	28,300	Major	none	3/21/1998	17.74	21,600	Moderate	none
3/29/1984	16	19,300	Minor	none	3/22/2000	16.43	18,700	Minor	none

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12/18/2000	15.89	17,500	Minor	none	10/30/2012	21.78	29,700	Major	none
1/2/2003	15.17	16,025	Minor	none	1/31/2013	17.57	19,900	Moderate	none
5/17/2003	15.86	17,450	Minor	none	3/31/2014	15.52	16,100	Minor	none
6/8/2003	15.1	15,885	Minor	none	5/1/2014	19.21	23,500	Moderate	none
9/24/2003	19.71	24,100	Moderate	none	5/17/2014	18.65	22,200	Moderate	none
12/12/2003	20.92	27,400	Major	none	6/28/2015	15.52	16,100	Minor	none
2/7/2004	16.35	18,492	Minor	none	2/4/2016	16.71	18,200	Minor	none
9/29/2004	17.65	19,100	Moderate	none	2/25/2016	16.55	17,900	Minor	none
1/15/2005	16.98	17,600	Minor	none	7/22/2018	17.62	20,700	Moderate	none
3/29/2005	15.69	15,100	Minor	none	8/4/2018	15.74	16,900	Minor	none
4/3/2005	17.43	18,600	Moderate	none	9/10/2018	21.36	29,100	Major	none
6/28/2006	15.29	14,500	Minor	none	9/28/2018	16.32	18,100	Minor	none
3/3/2007	17.07	18,100	Moderate	none	11/25/2018	15.57	16,600	Minor	none
5/13/2008	17.04	18,000	Moderate	none	12/16/2018	16.36	18,100	Minor	none
12/12/2008	16.54	17,100	Minor	none					
12/27/2009	18.12	20,300	Moderate	none					
1/26/2010	16.71	17,400	Minor	none					
3/14/2010	16.92	17,800	Minor	none					
3/7/2011	16.01	16,100	Minor	none					
3/11/2011	16.94	17,800	Minor	none					
4/17/2011	20.61	26,300	Major	none					
9/9/2011	17.04	18,000	Moderate	none					
11/23/2011	20.25	25,900	Major	none					

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Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code	Date of Flood	Crest (ft)	Streamflow (cfs)	Category	Code
Code	Description								
C1	Crest information looks unreliable and incomplete and not used in frequency calculations. Some of the floods are based on current flood stage and nearby gage information.								
C2	Crest information looks reliable despite potential problems. This data was used in frequency calculations.								
C3	Crest height estimated by the USGS.								
C4	Crest height is from the National Weather Service.								
C5	Crest height affected by backwater.								
C6	Crest occurred at a previous flood stage that is lower than the current flood stage. The crests below the new flood stage are not used in flood frequency calculations.								
C7	Crest from USGS yearly peak and/or date is different than the crest we provide. In many cases MARFC uses crest based on backwater or ice effects.								
C8	Crest month or day of occurrence has been estimated by The Middle Atlantic River Forecast Center usually based on nearby gage information.								
C9	Crest date (day) in the month is unknown.								
F1	Flow is an estimate.								
F2	Flow affected by regulation or diversion and in some cases to an unknown degree.								
F3	Flow effected by snow-melt, ice jam or debris jam break up.								
F4	Flow affected by dam failure.								
F5	Flow - All or part of the record affected by urbanization, mining, agricultural changes, channelization or other factors.								
G1	Gage height at a different site and/or datum.								
G2	Gage is not an official USGS gage with crests provided by the NWS. Crest information looks unreliable and incomplete and not used in flood frequency calculations.								
G3	Gage datum changed during this year.								
none	No code; Good Data								